

# Nandini Saxena

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## Education

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**B.Tech in Computer Science and Engineering**

2023 – 2027

Amity University, Gwalior  
SGPA: 9.07 (5th Semester)

## Technical Skills

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**Languages:** C, C++, Python, Java, Kotlin, JavaScript, HTML, CSS

**Frameworks & Tools:** Spring, Spring Boot, Django, TensorFlow, Keras, OpenCV, Firebase, Flask, Streamlit, Git

**Data & Analytics:** MS Excel (Basic), Power BI (Beginner), Data Cleaning & Preprocessing

**Core CS:** Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Cryptography, Computer Networks

**Domains:** Artificial Intelligence, Machine Learning, Deep Learning, Reinforcement Learning, Android Development

## Internship Experience

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**Python Developer Intern**

Main Flow Services and Technologies Pvt. Ltd.

*Duration: 6 Weeks*

- Applied Data Structures and Algorithms in Python to build logic-driven systems.
- Explored AI concepts, algorithmic decision-making, and modular game logic implementations.
- Worked with cryptography fundamentals and secure data handling techniques.

## Projects

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**SkillScan – AI-Powered Resume Analyzer**

*Python, Flask, JavaScript, Groq LLaMA API — GitHub —*

*Live App*

- Built a full-stack AI resume analyzer that scores a resume against a job description using LLM analysis — delivering ATS score, skill gap detection, keyword density analysis, and AI rewrite suggestions in a single API call.
- Connected a Python Flask backend (pdfplumber for PDF parsing, Groq's LLaMA 3.3 70B for analysis) to a vanilla JS frontend, deployed live on Render + Netlify.

**Lexora – Exam Accessibility Engine for Dyslexic Students** *Python, NLP, API Architecture, JavaScript*

- Engineered an API-first system that transforms complex exam questions into simplified, cognitively accessible versions using NLP — explicitly reducing syntactic complexity and cognitive load for dyslexic learners, beyond traditional font or spacing-based solutions.
- Designed a scalable, integratable solution with a frontend prototype for live demonstration, enabling seamless adoption across existing exam platforms.

**NovaCrypt – Multi-Layer Encryption Web Application**

*Python, Streamlit — GitHub — Live App*

- Built an interactive encryption toolkit supporting 6 techniques (Caesar, Vigenère, ASCII Shift, Base64, Reverse, SHA-256), with a multi-layer pipeline that chains all ciphers sequentially.
- Designed a glassmorphism UI with custom pixel fonts and a Streamlit backend — supporting encrypt/decrypt flows and one-way SHA-256 hashing in a single-page interface.

**WordWise – Dictionary Android Application**

*Kotlin, Android SDK — GitHub*

- Built a real-time dictionary app powered by a public RESTful API (via Retrofit), delivering definitions, phonetics, synonyms, and antonyms with instant search response.
- Crafted a polished MVVM-architecture UI featuring a Word of the Day card, curated literary quotes, and smooth splash animations — keeping the main thread fully non-blocking through async API calls.

**CosmicMatch – Android Game Application**

*Kotlin, Android SDK — GitHub*

- Developed a space-themed memory matching game across multiple difficulty grids (4×4, 4×5) with a live count-down timer, shrinking ProgressBar, and a 3-use Hint System.
- Built complete game state management — handling card flips, match detection, mismatch delays, and win/loss navigation across a clean multi-activity flow.

## Hackathons & Achievements

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- 1st Prize – SISTec Innovation Hackathon (Urban Development Category Winner), Bhopal
- Ranked 4th + Special Mention – Reckon 7.0 Hackathon, JEIT University, Jodhpur
- 3rd Rank – Zinnovatio 3.0 Hackathon, Chandigarh University
- Participant – Amazon ML Challenge, MariaDB Python Hackathon, AceHack 4.0

## Certifications

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- AWS Cloud Solutions Architect Virtual Experience – Forage
- Deloitte Cyber Security Virtual Job Simulation – Forage
- Tata Data Visualisation Virtual Experience – Forage